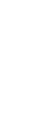
51. (Amended) [The method claimed in claim 1, wherein said step of
preprocessing said data at said central broadcast server, further comprising the step
of:] A method for transmitting data to selected remote computing devices,
comprising the steps of:
transmitting data from an information source to a central broadcast server;
preprocessing said data at said central broadcast server, further comprising
the step of:
providing data to servers in said central broadcast server;
parsing said data with parsers corresponding to said servers;
transmitting said data to [said] a content manager for determining how
said data is handled;
transmitting said data from said content manager to [said] an
information gateway for building data blocks and assigning addresses to said data
block; and
transmitting said data blocks from said information gateway to [said]
<u>a</u> transmission gateway for preparing said data block for transmission to [said]
receivers;
transmitting preprocessed data to receivers communicating with said
computing devices; and
instantaneously notifying said computing devices of receipt of said
preprocessed data whether said computing devices are on or off.
53. (Amended) The method plaimed in claim [54] <u>37</u> , further comprising
the step of:
utilizing a remote control interface for controlling said viewers.

## Please add new claims 82-155 as follows:

- 1 --82. The method claimed in claim 8, wherein said single function comprises a
- 2 single click on said computing device.
- 1 83. The method claimed in claim 82, wherein said computing device comprises a computer.
- 1 84. The method claimed in claim 51, wherein said step of transmitting
- 2 preprocessed data to remote receivers communicating with said computing devices,
- 3 further comprises the step of:
- 4 wirelessly transmitting said preprocessed data to remote receivers.
- 1 85. The method claimed in claim 84, wherein said step of wirelessly transmitting 2 said preprocessed data to remote receivers further comprises the step of:
- transmitting said preprocessed data utilizing a paging network.
- 1 88. The method claimed in claim 84, wherein said step of wirelessly transmitting
- 2 said preprocessed data to remote receivers further comprises the step of:
- 3 transmitting said preprocessed data utilizing a Vertical Blanking Interval.
- 1 \$1. The method claimed in claim \$4, wherein said step of wirelessly transmitting
- 2 said preprocessed data to remote receivers further comprises the step of:
- transmitting said preprocessed data utilizing a satellite system.
- 1 ,88. The method claimed in claim, 51, wherein said step of transmitting
- 2 preprocessed data to remote receivers communicating with said computing devices,
- 3 further comprises the step of:

- transmitting said preprocessed data to remote receivers by wired transmission.
- 1 89. The method claimed in claim 51, wherein said step of preprocessing data
- 2 at said central broadcast server, further comprises the step of:
- attaching to said preprocessed data an Internet address location of said
- 4 preprocessed data for providing to said user an automatic connection back to
- 5 said information source for obtaining further information related to said
- 6 preprocessed data.
- 1 90. The method claimed in claim 89, wherein said Internet address location is 2 a Uniform Resource Locator.
- 1 91. The method claimed in claim 89, wherein said step of attaching to said
- 2 preprocessed data an Internet address location of said preprocessed data for
- 3 providing to said user an automatic connection back to said information source
- 4 for obtaining further information related to said preprocessed data, further
- 5 comprises the step of:
- 6 providing an automatic connection back to said information source
- 7 through an user activating a single function on said computing device.
- 1 \$\sqrt{2}\$. The method claimed in claim \$1, wherein said single function comprises a
- 2 single click on said computing device.



The method claimed in claim 89, wherein said connection back to said information source for obtaining further information related to said preprocessed 3 data is an automated wired connection. The method claimed in claim &9, wherein said connection back to said information source for obtaining further information related to said preprocessed 2 data is an automated wireless connection. 3 √95. The method claimed in claim 89, wherein said step of attaching to said 2 preprocessed data an Internet address location of said preprocessed data for providing to said user an automatic connection back to said information source 3 for obtaining further information related to said preprocessed data, further 4 comprises the step of: 5 6 determining at said central broadcast server said Internet address location from said information source. 7 The method claimed in claim 89, wherein said step of attaching to said preprocessed data an Internet address location of said preprocessed data for 2 3 providing to said user an automatic connection back to said information source for obtaining further information related to said preprocessed data, further 4 comprises the step of: 5 attaching said Internet address location to said preprocessed data. 6 The method claimed in claim 89, wherein said step of attaching to said preprocessed data an Internet address location of said preprocessed data for 2 3 providing to said user an automatic connection back to said information source for obtaining further information related to said preprocessed data, further 4

69

5

90933

comprises the step of:

6		transmitting said Internet address location with said preprocessed data to
7	said o	computing device.
	$\lambda$	9
1	,98.°	The method claimed in claim \$9, further comprising the step of:
2		extracting said Internet address location from said preprocessed data at
3	said c	computing device.
	19	9
1	99.	The method claimed in claim 89, further comprising the step of:
2		displaying said Internet address location with said preprocessed data to
3	said u	ser such that said user can with a single click on said Internet address
4	location	on to obtain additional information from said information source.
	20	9
1	100.	The method claimed in claim 89, further comprising the step of:
2		launching an Internet browser and passing said Internet address location
3	to said	d browser for automatic connection back to said information source.
	29	·
1	101.	The method claimed in claim 51, wherein said step of instantaneously
2	notify	ing said computing devices of receipt of said preprocessed data whether
3	said c	computing devices are on or off, further comprises the step of:
4	•	providing at least one alert which when activated allows display of data.
	23	22
1	102.	The method claimed in claim 101, wherein said at least one alert
2	comp	rises a visual alert.
	24	a2
1	103.	The method claimed in claim 101, wherein said at least one alert
2	comp	rises an audio alert.

	26	
1	104.	The method claimed in claim 61, wherein said step of instantaneously
2	notify	ing said computing devices of receipt of said preprocessed data whether
3	said o	computing devices are on or off, further comprises the step of:
4		providing a dockable user interface alert panel on a display
5	comm	nunicating with computing device for providing alerts to said user, wherein
6	said a	alert panel is dockable on top of other applications.
1	<i>47</i> ,105.	The method claimed in claim 104, wherein said step of providing a
2	docka	able user interface alert panel on a display communicating with computing
3	devic	e for providing alerts to said user, further comprises the step of:
4	·	displaying fly-in graphics and icon buttons to alert said user that new data
5	has b	een received by said computing device.
	25	22
1	<i>_</i> 106.	The method claimed in claim 101, wherein said at least one alert is related
2	to typ	e of information present at computing device.
	28	1
1	_107.	The method claimed in claim 51, wherein said step of preprocessing said
2	data a	at said central broadcast server further comprises the step of:
3	•	deriving redundant data packets for transmission to said user.
	29	28
1	108.	The method claimed in claim 107, wherein said step of deriving redundant
2	data p	packets for transmission to said user further comprises the step of:
3		parceling a data block into at least one incoming message
	30	29
1	_109.	The method claimed in claim 108, wherein said step of deriving redundant
2	data p	packets for transmission to said user further comprises the step of:

7/ 90933

3

7

parceling said messages into k information packets.

30

- 1 410. The method claimed in claim 109, wherein said step of deriving redundant
- 2 data packets for transmission to said user further comprises the step of:
- 3 selecting a number of parity-check packets p.

32 31

- 1 111. The method claimed in claim 110, wherein said step of deriving redundant
- 2 data packets for transmission to said user further comprises the step of:
- 3 encoding column-wise with a modified Reed-Solomon code for generating
- 4 parity-check packets.

33

32

112. The method claimed in claim 111, wherein said Reed-Solomon code is defined in accordance with:

310722

$$P$$

$$g(x) = \Pi (x + a^{i})$$

$$I=1$$

34

32

- 1 113. The method claimed in claim 111, wherein said step of deriving redundant
- 2 data packets for transmission to said user further comprises the step of:
- 3 parceling said data packets into code words for transmission to said user.

38

27

- 1 114. The method claimed in claim 107, wherein said data packets include
- 2 information packets and parity-check packets.

36

34

- 1 115. The method claimed in claim 113, wherein said step of deriving redundant
- 2 data packets for transmission to said user further comprises the steps of:
- 3 performing error correction and detection on said code words after said
- 4 data packets have been parceled.

1 116.

The method claimed in claim 113, further comprising the step of:

2		assembling a data block from said code words.
ì	37	36 The method claimed in claim 146, wherein said step of assembling a data
2		from said code words further comprises the step of:
3	·	counting the number of code words which have errors;
4		determining whether each packet has any errors;
5		saving packets without error;
6		discarding packets with at least one error; and
7		assembling a message when the required number of packets has been
8	receiv	
	39	/ The method claimed in claim-51, wherein said step of preprocessing said
1	118.	The method claimed in claim-51, wherein said step of preprocessing said
2	data a	at said central broadcast server further comprises the step of:
3		combining Huffman compression and the dictionary-based compression
4	based	d algorithms.
	40	39
1	119.	The method claimed in claim 118, wherein said step of combining
2	Huffm	nan compression and the dictionary-based compression based algorithms
3	furthe	r comprises the steps of:
4		scanning input texts;
5		searching for next item previously seen text;
6		searching for next item in a static Huffman dictionary; and
7		choosing said search method which produces a better result for
8	comp	ression.
	41	40
1	120.	The method claimed in claim 119, further comprising the step of:
2		decompressing said compressed data.

The method claimed in claim 51, wherein said step of preprocessing said data at said central broadcast server further comprises the step of: 2 utilizing a differencing algorithm for compressing said coded data, thereby 3 4 significantly reducing the number of bytes sent with each transmission. The method claimed in claim of, wherein said step of preprocessing data 2 at said central broadcast server, further comprises the step of: processing data in accordance with feed type from said information 3 4 source. The method claimed in claim 122, wherein said feed type comprises binary type feeds. 2 43
The method claimed in claim\_122, wherein said feed type comprises 2 common user information type feeds. for modifying registry keys which control processing of data. 126. The method claimed in claim 122, wherein said step of processing data in 1 accordance with feed type from said information source, further comprises the 2 3 step of: using tags to differentiate types of information. 4 127. The method claimed in claim 51, wherein said step of instantaneously 1 notifying said computing devices of receipt of said preprocessed data whether 2

3

said computing devices are on or off, further comprises the step of:

4		instantaneously alerting said user to personal alerts through the use of
5	sound	I, graphics, bit maps or video, wherein said user can instantaneously
6	acces	s information.
	S	649
1	_128.	€49 The method claimed in claim 51, wherein said step of preprocessing data
2	at said	d central broadcast server, further comprises the step of:
3		encoding said data with information relating to message parameters for
4	filterin	g.
	50	/
1	129.	The method claimed in claim 51, wherein said step of instantaneously
2	notifyi	ng said computing devices of receipt of said preprocessed data whether
3	said c	omputing devices are on or off, further comprises the steps of:
4		monitoring said transmissions utilizing multiple viewers;
5		filtering said transmitted preprocessed data;
6		post processing said preprocessed data; and
7		notifying said user instantaneously of receipt of filtered postprocessed
8	data.	
	51	60
1	130.	The method claimed in claim 129, wherein said step of filtering said
2	transn	nitted preprocessed data further comprises the step of:
3		filtering said transmitted preprocessed data in accordance with
4	prefer	ences set by said user.
	60	2
1	<i>1</i> 31.	The method claimed in claim 130, wherein said step of filtering said
2	transn	nitted preprocessed data in accordance with preferences set by said user,
3	furthe	r comprises the step of:
4		setting said preferences with respect to sound, video and animation.

	63	60
1	_132.	The method claimed in claim 129, wherein said step of filtering said
2	transn	nitted preprocessed data further comprises the step of:
3		filtering said preprocessed data in accordance with virtual addresses.
	54	50
1	133.	The method claimed in claim-129, wherein said step of filtering said
2	transn	nitted preprocessed data further comprises the step of:
3		filtering said preprocessed data in accordance with physical addresses.
	50	50
1	<i>1</i> 34.	The method claimed in claim 128, further comprising the step of:
2		controlling said viewers from said central broadcast server.
	tol	/
1	135.	The method claimed in claim 51, further comprising the step of:
2		activating said preprocessed data at a scheduled time.
	42	_
1	136.	The method claimed in claim 51, further comprising the step of:
2		modifying said preprocessed data instantaneously and wirelessly.
	63	£-6
1	137.	The method claimed in claim 136, wherein said step of modifying said
2	prepro	ocessed data instantaneously and wirelessly, further comprises the step of:
3		activating services wirelessly through activation codes which enable or
4	disabl	e services.
	66	60
1	_138.	The method claimed in claim 134, wherein said step of controlling said
2	viewe	rs from said central broadcast server, further comprises the step of:
3		adding viewers from said central broadcast server.
	67	66
1	139.	The method claimed in claim 134, wherein said step of controlling said
2	viewe	rs from said central broadcast server, further comprises the step of:
3		removing viewers from said central broadcast server.

4	64	/ The method claimed in claim 51, further comprising the step of:
1	140.1	·
2		postprocessing said preprocessed data.
	65	The method claimed in claim 140, wherein said step of postprocessing
1	<i>J</i> 41.	The method claimed in claim 140, wherein said step of postprocessing
2	said p	reprocessed data further comprises the step of:
3		recombining, decoding and decompressing said preprocessed data.
	66	
1	142.	The method claimed in claim-51, wherein said information source may be
2	an Int	ernet access provider providing data feeds.
	10 1	
1	143:	The method claimed in claim 81, wherein said information source may be
2		-line service provider providing data feeds.
	107	<i>(</i>
1	144.	The method claimed in claim 51, wherein said step of transmitting said
2	data f	rom said content manager to said information gateway for building data
3	blocks	s and assigning addresses to said data block, further comprises the step of:
4		building data blocks and assigning addresses to said data block based on
5	inform	nation in a subscriber database.
	£3	60
1	145.	The method claimed in claim 129, further comprising the step of:
2		utilizing a remote control interface for controlling said viewers.
	69	67
1	146.	The method claimed in claim 1/45, wherein said step of utilizing a remote
2	contro	ol interface for controlling said viewers further comprises the step of:
3		launching said remote control interface through a user interface alert
4	panel	
	60	50
1	147.	The method claimed in claim 129, further comprising the step of:

2		storing entries in a viewer server connected to said viewer; and
3		providing filtering means for filtering particular types of messages a viewer
4	can lo	ok at.
	69	
1	148.	The method claimed in claim \$1, further comprising the step of:
2		displaying contextual graphics on said computing device to show data in a
3	prede	fined format.
	18	69
1	<b>449</b> .	The method claimed in claim 148, wherein said predefined format is a
2	score	board.
	11	
1	150.	The method claimed in claim 51, wherein said step of preprocessing data
2	at said	d central broadcast server, further comprises the step of:
3		attaching to said preprocessed data an Internet address location of said
4	prepro	ocessed data for providing to said user a message that causes a process or
5	transa	action on said computing device to occur.
		9
1	<i>4</i> 51.	The method claimed in claim 89, wherein said Internet address is a
2	propri	etary on-line addressing scheme.
	1	3
1	-152.	The method claimed in claim 84, wherein said step of wirelessly
2	transr	nitting said preprocessed data to remote receivers further comprises the
3	step c	of:
4		transmitting said preprocessed data utilizing a FM subcarrier, digital,
5	analo	g, cellular, GSM or PCS carrier.
	the state of	12
1	153.	The method claimed in claim 51, wherein said step of preprocessing said
2	data a	at said central broadcast server, further comprises the step of:
3		sending said data on groups of pooled capcodes.

	2	3
1	<i>1</i> 54.	The method claimed in claim 153, wherein said step of sending said data
2	on gro	oups of pooled capcodes, further comprises the step of:
3		multiplexing data over multiple capcodes to be reassembled at said user
4	as if c	lata were being sent over a single capcode.
	14	
1	155.	The method claimed in claim 51, wherein said step of preprocessing said
2	data a	at said central broadcast server, further comprises the step of:
3		assigning data packets to a group of capcodes;
4		transmitting said data over a paging network using said group of
5	capco	odes;
6		receiving packets at said user on said group of capcodes; and
7		combining said packets from group of capcodes into one data message.
_	-	
		ADDITIONAL "EMBEDDED URL & ALERT" CLAIMS
1	156.	A method for transmitting data to a plurality of receivers, comprising the
2 .	steps	of:
3		generating data including an Internet address location; and
4		broadcasting said data including said Internet address location to a user in
5	comm	nunication with one of said plurality of receivers, wherein said Internet
6	addre	ss location is not broadcast in response to a request for said Internet
7	addre	ss location by said user.
1	157.	The method claimed in claim 156, further comprising the step of:
2		providing said user with a direct connection to said location identified by
3	said l	nternet address location.
1	158.	The method claimed in claim 157, further comprising the step of:

- 1 159. The method claimed in claim 156, wherein said Internet address location
- 2 is a Uniform Resource Locator.
- 1 160. The method claimed in claim/157, wherein said step of providing said user
- with a direct connection to said location identified by said Internet address
- 3 location, further comprises the step of:
- 4 providing a connection to said location through said user activating a
- 5 single function on said remote/device.
- 1 161. The method claimed in claim 160, wherein said single function comprises
- 2 a single click on said remote device.
- 1 162. The method claimed in claim 157, wherein said step of providing said user
- with a direct connection to said location identified by said Internet address
- 3 location, further comprises the step of:
- 4 providing a wireless connection to said location for said user to obtain
- 5 further information.
- 1 163. The method claimed in claim 157, wherein said step of providing said user
- with a direct connection to said location identified by said Internet address
- 3 location, further comprises the step of:
- 4 providing a wired connection to said location for obtaining further
- 5 information.
- 1 164. The method claimed in claim 156, wherein said step of generating data
- 2 including an Internet address location, further comprises the step of:

3	determining at a server said Internet address ocation from a source
4	providing information to said server.
1	165. The method claimed in claim 164, wherein said step of generating data
2	including an Internet address location, further comprises the step of:
3	attaching said Internet address location to said data.
1	166. The method claimed in claim 165, wherein said step of attaching said
2	Internet address location to said data, further comprises the step of:
3	embedding said Internet address location within said data.
1	167. The method claimed in claim/156, further comprising the step of:
2	extracting said Internet address location from said data at said plurality of
3	remote devices.
1	168. The method claimed in claim 158, wherein said step of providing
2	notification of said Internet address location to said user in communication with
3	one of said plurality of receivers, further comprises the step of:
4	displaying said Internet address location to said user on one of said
5	plurality of receivers.
1	169. The method claimed in claim 168, wherein said step of displaying said
2	Internet address location to said user on one of said plurality of receivers, further
3	comprises the step of:
4	utilizing a single click on said Internet address location to obtain additional
5	information from said information source.

- 1 170. The method claimed in claim 157, wherein said/step of providing said user
- with a direct connection to said location identified by/said Internet address
- 3 location, further comprises the step of:
- 4 launching an Internet browser and passing said Internet address location
- 5 to said browser for automatic connection back to said location.
- 1 171. The method claimed in claim 156, wherein said Internet address location
- 2 corresponds to a location on the World Wide Web.
- 1 172. The method claimed in claim 158, wherein said step of providing
- 2 notification of said Internet address location to said user in communication with
- one of said plurality of receivers, further/comprises the step of:
- 4 providing an alert to said user in communication with said at least one
- 5 remote device.
- 1 173. The method claimed in clair 172, further comprising the step of:
- 2 activating said alert to obtain additional information from an information
- 3 source.
- 1 174. The method claimed in claim 156, wherein said at least one remote device
- 2 comprises a paging device.
- 1 175. The method claimed in claim 172, wherein said alert comprises a visual
- 2 alert.
- 1 176. The method claimed in claim 175, wherein said visual alert comprises the
- 2 text of the Internet address location.

